Standalone SAR test exclusion considerations

RF feature	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm)[Note1]	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
ANT+	GFSK	2 457.00	5.0	0.60	1.00	1.258 9	0.39	3.00
Bluetooth LE	1, 2 Mbps	2 480.00	5.0	0.60	8.50	7.079 5	2.23	3.00

Note1. Please refer to the operation description for max target power.

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR

Sample Calculation

= [(1.2589mW / 5mm)] X [√2.457GHz] = 0.39

Note. The calculation result was rounded to two decimal place for comparison.

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required